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(21) International Application Number: PCT/US98/08926 (22) International Filing Date: 1 May 1998 (01.05.98) (30) Priority Data: 60/045,400 2 May 1997 (02.05.97) US (71) Applicant (for all designated States except US): THE GOVERNMENT OF THE UNITED STATES OF AMERICA as represented by THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, c/o Centers for Disease Control and Prevention, Technology Transfer Office [US/US]; Atlanta, GA 30329 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): MORRISON, Christine, J. [US/US]; 3110 Tolbert Drive, Decatur, GA 30033 (US). REISS, Errol [US/US]; 3642 Castaway Court, Chamblee, GA 30341 (US). AIDOREVICH, Liliana [VE/VE]; Calle Circunvalación, Manzana B7 #16 Urlo, El Castan Maracay Edo Aragua (VE). CHOI, Jong, Soo [KR/KR]; 202-1506, Sinchungi-Town Apartment, Whangum-dong, Susung-gu, Taegu City 706-040 (KR). (74) Agents: WARREN, William, L. et al.; Jones & Askew, 37th floor, 191 Peachtree Street, N.E., Atlanta, GA 30303 (US).		(81) Designated States: AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: NUCLEIC ACIDS FOR DETECTING <i>ASPERGILLUS</i> SPECIES AND OTHER FILAMENTOUS FUNGI		
(57) Abstract <p>Nucleic acids for detecting <i>Aspergillus</i> species and other filamentous fungi are provided. Unique internal transcribed spacer 2 coding regions permit the development of nucleic acid probes specific for five different species of <i>Aspergillus</i>, three species of <i>Fusarium</i>, four species of <i>Mucor</i>, two species of <i>Penicillium</i>, five species of <i>Rhizopus</i>, one species of <i>Rhizomucor</i>, as well as probes for <i>Absidia corymbifera</i>, <i>Cunninghamella elagans</i>, <i>Pseudallescheria boydii</i>, and <i>Sporothrix schenkii</i>. The invention thereby provides methods for the species-specific detection and diagnosis of infection by <i>Aspergillus</i>, <i>Fusarium</i>, <i>Mucor</i>, <i>Penicillium</i>, <i>Rhizopus</i>, <i>Rhizomucor</i>, <i>Absidia</i>, <i>Cunninghamella</i>, <i>Pseudallescheria</i> or <i>Sporthrix</i> in a subject. Furthermore, genus-specific probes are also provided for <i>Aspergillus</i>, <i>Fusarium</i> and <i>Mucor</i>, in addition to an all-fungus nucleic acid probe.</p>		

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